

REPCO Incorporated

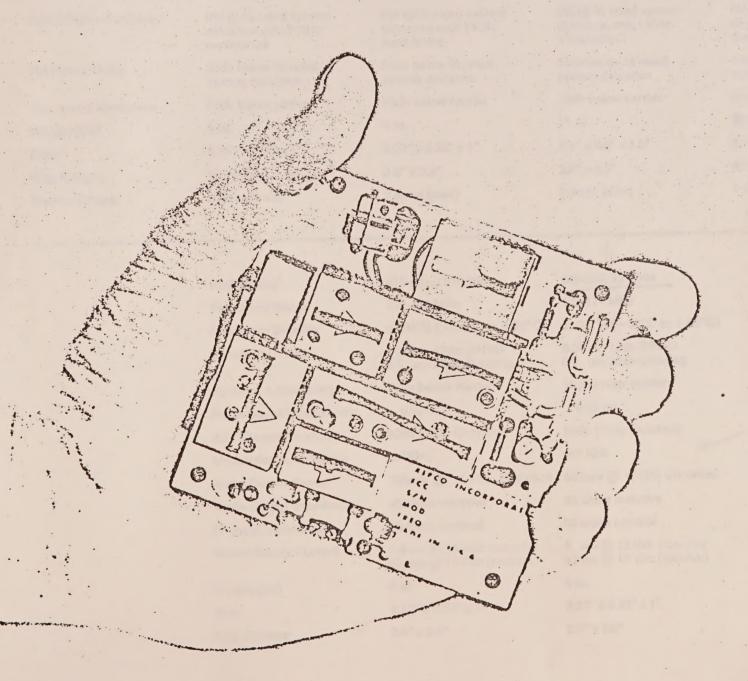
R. W. "BILL" SCHERMERHORN SALES ENGINEER

1940 LOCKWOOD WAY

ORLANDO, FLORIDA 32804

P. O. BOX 7065

Repend RF Links



WHIF (high band, 132-174 MHz)

TRANSMITTERS

Frequency Range

Frequency Stability

RF Power Output

Emission Type

Power Supply Volts

Operating Range

Power Supply Current

Audio Input Impedance

Audio Input Level @ 1KHz for ±3.3 KHz Deviation

Audio Response (300-3000 Hz)

Audio Distortion (Max)

FM Hum & Noise

Spurious & Harmonics

Weight (Oz)

Size

Mtg. Centers

Transmit Ready

810-038, 2.2 Watts

132-174 MHz

±.0005%

(- 30°C to +60°C)

2.2 W @ 15 Vdc

15F2, 16F3

+15 Vdc Nominal

+12.8 to +17.3 Vdc

400 ma @ 15 Vdc

5,000 ohms @ 1 KHz

5-10 my Rms

+1, -3db of std. EIA 6db/octave pre-emphasis

characteristic

6% @ 3/3 rated system deviation with 1 KHz

modulation

50db below 3/3 rated system deviation

47db below carrier

6 oz.

3.32" x 3.32" x 1"

2.9" x 2.9"

2 msec (max)

810-040 4.0 Watts

132-174 MHz

±.0005%

(- 30°C to +60°C)

4.0 W @ 15 Vdc

15F2, 16F3

+15 Vdc Nominal

+12.8 to +17.3 Vdc

650 ma @ 15 Vdc

5,000 ohms @ 1 KHz

5-10 my Rms

+1, -3db of std. EIA 6db/octave pre-emphasis

characteristic

6% @ 3/3 rated system deviation with 1 KHz

modulation

50db below 3/3 rated system deviation

49db below carrier

6 oz.

3.32" x 3.32" x 1"

2.9" x 2.9"

2 msec (max)

816-011, 8 Watts

132-174 MHz

±.0005% (- 30°C to +60°C)

8 W @ 12.5 Vdc

15F2, 16F3

+12.5 Vdc Nominal

+10.5 to +14.5 Vdc

1.8 Amps @ 12.5 Vdc

4,700 ohms @ 1 KHz

7 mv Rms

+1, -3db of std. EIA 6db/octave pre-emphasis

characteristic

6% @ 3 rated system deviation with 1 KHz

modulation

50db below 3 rated system deviation

60db below carrier

15 oz.

4.1" x 4.6" x 1.5"

3.6" x 4.1"

2 msec (max)

816-040, 25 Watts

132-174 MHz

±.0005%

(- 30°C to +60°C)

25 W @ 12.5 Vdc

15F2, 16F3

+12.5 Vdc Nominal

+10.5 to +14.5 Vdc

5 Amps @ 12.5 Vdc

4,700 ohms @ 1 KHz

7 my Rms

+1, -3db of std. EIA 6db/octave pre-emphasis characteristic

6% @ % rated system deviation with 1 KHz modulation

50db below % rated system deviation

63db below carrier

20 oz.

8.18" x 4.75" x 1.75"

4.25" x 6.68"

2 msec (max)

RECEIVERS

Frequency Range

Frequency Stability

Sensitivity

Spurious & Image Rej.

Noise Squelch Sensitivity

Adj. Channel Rejection

Modulation Acceptance

Audio Output Power

Audio Output Impedance

RF Input Impedance

Power Supply Current

Weight (Oz)

Size

Mtg. Centers

810-037, 15 Volts

132-174 MHz

±.001% (-30°C to +60°C)

0.35 uv: 12db SINAD 0.5 uv: 20db Quieting

70db below carrier

0.25 uv

80db (20db Quieting)

±7KHz

750mw @ <10% distortion

25 ohms resistive

50 ohms nominal

4.6 ma @ 15 Vdc (standby 87 ma @ 15 Vdc (receive

6 oz.

3.32" x 3.32" x 1"

2.9" x 2.9"

810-055, 12 Volts

132-174 MHz

±.001% (-30°C to +60°C)

0.35 uv: 12db SINAD 0.5 uv: 20db Quieting

70db below carrier

0.25 uv

80db (20db Quieting)

±7 KHz

500mw @ < 10% distortion

25 ohms resistive

50 ohms nominal

8 ma @ 12 Vdc (standby 87 ma @ 12 Vdc (receive)

6 oz.

3.32" x 3.32" x 1"

2.9" x 2.9"

Modify
Ey Replacing
Filter With
30 KHZ
Bindwidth

• TELEMETRY PRODUCTS • PRICE LIST

Effective: April 1, 1975

Euccuve: April 1, 1375											
TRANSMITTERS											
FREQ. & POW							,				
MII2 WAT	TS NUMBER	1-9	10-19	20-29	30-39	-1019	50-50	60-69	70-79	80-89	90-99
25-50 2.2 +	15.0V 810-035	196.00	194.04	192, 08	190.12	133.16	186.20	184, 24	182, 28	180.32	178.36
25-50 4.0 +	15.0V S10-045	243.00	2.10.57	238, 14	235, 71	233, 28	!	228,42	225, 99	223, 56	221, 13
							de same				
66-76 . 0.5 +		1	139.09	1	185.27	183.36	181.45	179,54	1	175.73	173.81
66-76 1.0 +1	15.0V 810-0-13	191.00	139.09	187.18	185.27	183.36	18115	179.54	177.63	175.72	173.81
66-88 2.2 +1	15.0V 810-038	191.00	189.09	187.18	185.27	183.36	181.45	179.54	177.63	175.72	173.81
66-88 4.0 +1	15.0V 810-040	225.00	222.75	220.50	218.25	216.00	213.75	211.50	209.25	207.00	204.75
132-174 2.2 +1	15.0V 810-03S	191.00	189.09	187.18	185.27	183.26	181. 15	179.54	177.63	175.72	173.81
132-174 4.0 +1	15.0V 810-0-10	225.00	222.75	220.50	218.25	216.00	213.75	211.50	209.25	207.00	204.75
132-174 0.4 +1	15.0V 810-0-11	191.00	189.09	187.18	185.27	183.36	181.45	179.54	177.63	175.72	173.81
132-174 8.0 +1	12.5V 816-011	283.00	280.17	277.34	274.51	271.68	268.85	266.02	263.19	260.36	257.53
150.8-174 25.0 +1	12.5V 816-040	393,00	389.07	385.14	381.21	377.28	373.35	369.42	365, 49	361.56	357.63
450-470 2.0 ±0	3.25V 817-020	231.00	22869	226.38	22-1.07	221.76	219,45	217.14	214.83	212.52	210.21
450-470 4.0 ±0	3.25V 817-021	335.00	331.65	328.30	324.95	321.60	318.25	314.90	311.55	308.20	304.85
			R	ECEIVE	RS		•			1	
25-50 -1 +1	15.0V 810-036	248.00	245.52	243.04	240.56	238.03	235,60	233, 12	230.64	228.16	225.68
GG-88, 132-174 +1	15.0V 810-037	237.00	234.63	232,26	229.89	227.52	225.15	222.78	220.41	218.04	215.67
25-50 +1	12.0V 810-056	248.00	245.52	243.04	240.56	233.08	235.60	233.12	230.64	228.16	225.68
66-88, 132-174 +1	12.0V 810-055	237.00	234.63	232.26	229.89	227.52	225, 15	222.78	220.41	218.04	215.67
450-470 +6	6.25V 817-022	312.00	305.88	305.76	302.61	299,52	296,40	293.28	290.16	287.04	283.92
			. (CRYSTA	LS						
PART NO USED IN MODEL NUMBERS							PRICE	EACH			
23-10-003	810-036, -056						\$14,23				
23-10-004	816-015						14.23				
23-10-005-	005 810-035, 810-045						16.51				
23-10-006 .	. 810-038, -040, -041, -042, -043; 816-011, -040					. 18.79					
23-10-007	810-037, 810-055					16.51					
23-09-008	817-022 ("A" Model - Crystal Multiplication X15)					21.50					
23-09-009	817-020, 817-021 ("A" Model - Crystal Multiplication X15)					24.	50 ·				

MOTES:

(1) Write for prices on quantities over 100.

(2) Transmitters and Receivers priced without Crystals.

(3) Delivery: 8 Weeks ARO - most models

(4) Terms: Cash, Net 30 (after approval of credit), FOB Orlando, Florida. account, all firms (D & B rated or

(Prices Subject to Change Without Notice)

SPECIAL PRODUCTS DEPARTMENT

REPERO Incorporated

BEGIGNERS AND MANUFACTURERS OF

• To establish an open, net 30 day
Florida.account, all firms (D & B rated or
otherwise) must submit 3 trade
references, Bank name & a current
financial statement.

POST OFFICE BOX 7065 ORIANDO, FLORIDA 32604

> PHONE 308/443-0464 TWX 810-860-0120

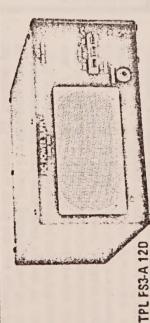


TPL REPEATER AMPLIFIERS

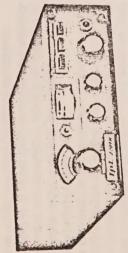
standard 19" rack, is 51%" high. Amplifier is RF shielded supply and special carrier operated forced air cooling. To order use amplifier part number and indicate it is for repeater use. Forced air cooling and AC power iguration. This configuration is designed to mount in a and is equipped with BNC input and Type N output connectors. May be ordered with or without power ALL TPL amplifiers can be ordered in a repeater con supply should be indicated if desired.

Prices upon request.

Fan option ... \$50 Rack option ... \$100.00



4 amps and filtered supply for the power amplifier at up to 15 amps, 20 amps intermittent. An eight ohm, 4" x 5" speaker is included for use with the transceiver. The The TPL PS3-A 12D base station power supply is an AC supply for the exciter and TPL power amplifiers. It features fully regulated voltage for the exciter at up to PS3-A 12D also includes a switch to turn the amplifier off, so that the exciter can be operated without the amplifier. Price: \$136.00



TPL-220TR FM TRANSCEIVER

So very much for so little money! This small VHF/FM transceiver offers high quality performance and features found on no other equipment. Features such as tuneable and crystal controlled receiver are available.

Each transceiver has provisions for use with an accessory AC power supply and an accessory transmitter VFO. TPL also offers a full line of accessories to meet every need.

220 MHz amateur band. The 12 watt output is more nominal below the carrier power level . Receiver type . . Dual conversion superheterodyne . Audio output. . 3.0 watts to 8 ohm load at less than 10% distortion • Selectivity (for 20 db quieting) ...-6 db at + 6 KHz - 60 db at + 25 KHz • Spurious rejection . . . More than 60 220-225 MHz · channel spacing . . . 25 KHz · No. of channels... 12 xtal + tuneable • Size... 8.5" L x 2.9"W watts FM . Spurious & harmonic radiation . . . 60 db The 220 TR delivers reliable, low cost operation on the than adequate for most uses and is also perfect for x 2"D . Weight . . . 3.0 lbs . RF Power Output . . . 12 driving the TPL Solid State amplifiers for output power GENERAL SPECIFICATIONS: Frequency range . . . db • Less than \$300.00 over 100 watts.

A VAILABLE LATE SUMMER 1974

Detailed specification sheets available. Please Prices subject to change without notice.

WALLACE & WALLACE Mfg's. Rep. 1206 MAPLE AVEINTS LOS ANGELES, CALIF. 900. PHONE: 747-0401

VUKON AVENUE/HAWTHORNE, CALIF, 502807 (213) 679-0131



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https://archive.org/details/aloha-11

why you rhould buy a TPL

TPL brings you the finest amateur RF amplifier for VHF FM available today. Years of experience in solid state RF design have gone into the equipment to assure the highest degree of efficiency and reliability.

Only state-of-the-art techniques in circuit and semiconductor technology make an amplifier of this quality possible. The amplifying transistors are of the balanced emitter silicon power type. These transistors are individually checked for power output and reliability during mismatch conditions, before being inserted in the amplifiers. Additionally the amplifying transistors are operated well within the factory's suggested limitations for added reliability and life. This assures the customer of years of dependable service even under the most punishing conditions.

Service even under the most purishing conditions.

Most circuitry is of micro-strip technique for stability and broadband characteristics. Additional features of the micro-strip techniques include extreme mechanical stability and ease of servicing.

Antenna switching is accomplished through the use of specially selected RF relays: these relays activated by an RF sensing circuit consisting of a printed omnidirectional coupler and amplifier. Thus when as little as 1 watt of RF power is applied to the input of the amplifier this circuit is activated causing the relay to switch this RF power through the RF power amplifier. During receive the antenna by-passes the amplifier and is fed through the relay to the transceiver.

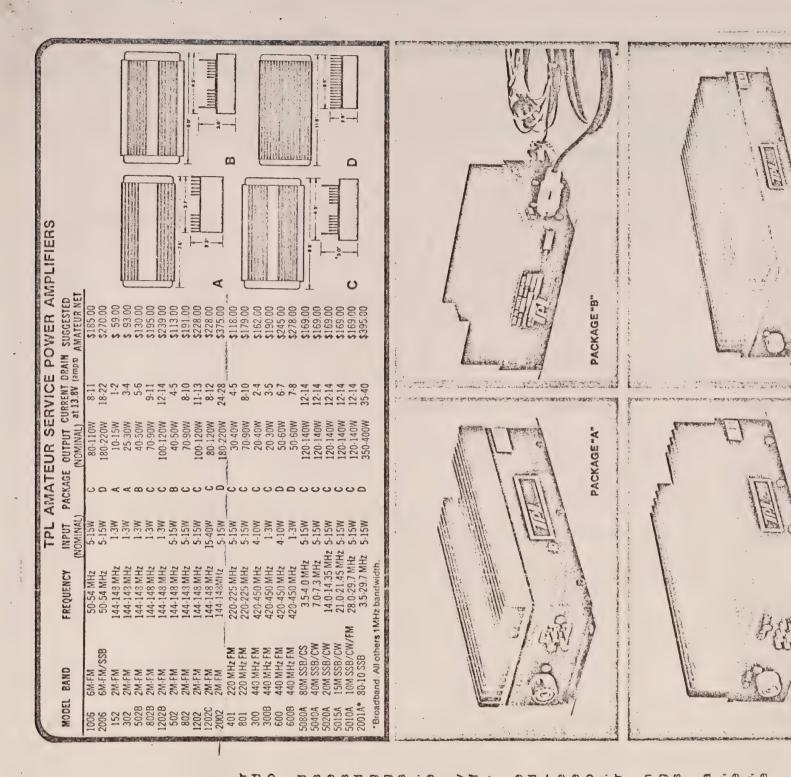
Also of note is a reverse voltage protection diode. In the event the amplifier is connected to the wrong polarity, the diode will protect the power transistors from destruction.

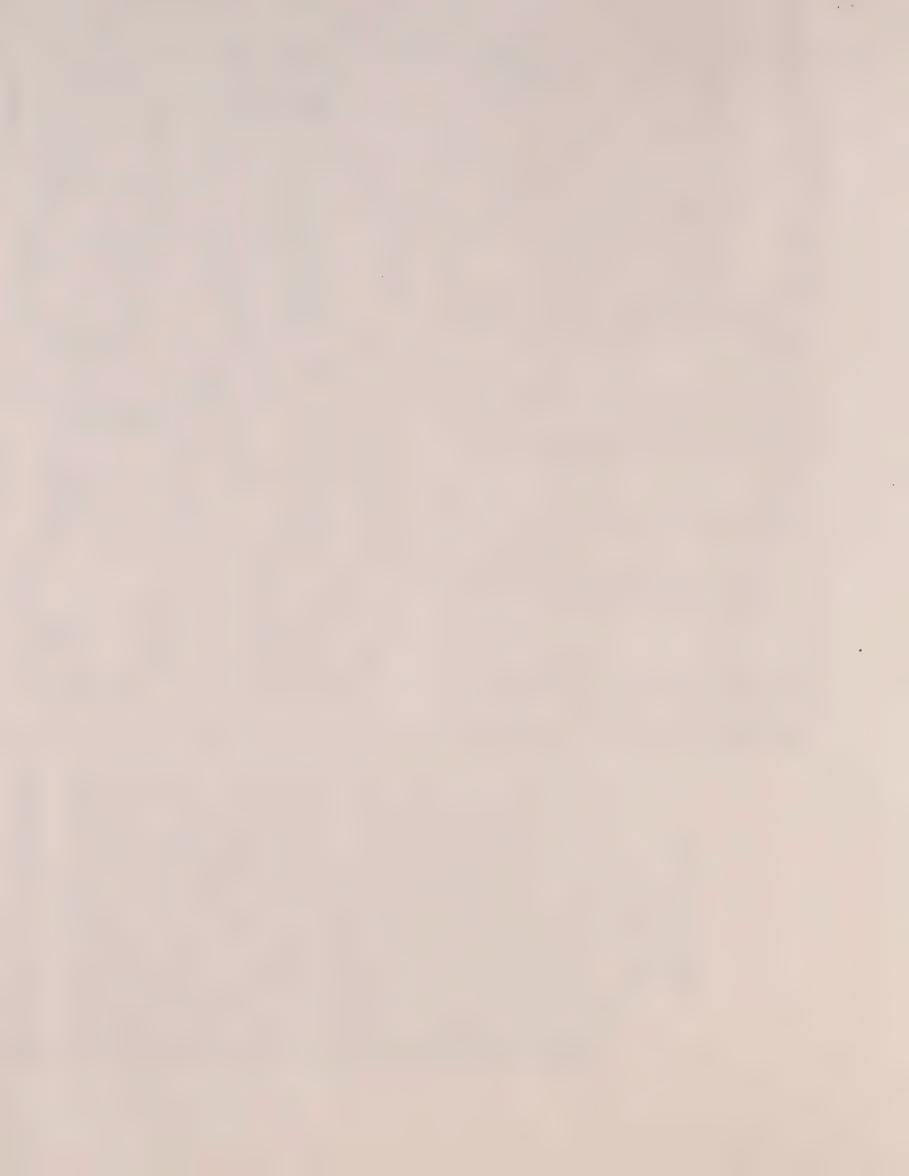
All RF and DC cables are supplied along with a detailed instruction manual describing installation, circuitry, and service. All of the units are very simple to install and fool-proof to operate. With proper care, these amplifiers will give you a lifetime of dependable

Commercial, type-accepted equipment is available for slightly higher prices. Those amplifiers include, commercial quality filtering.

PACKAGE "D"

PACKAGE "C"







AMATEUR NET PRICE SCHEDULE

621 HAYWARD STREET □ MANCHESTER, NEW HAMPSHIRE 03103 □ (603) 627-7877

Effective September 15, 1974

AMATEUR FM	ANTENNAS	BLITZ BUG			SQUALOS		
A147-4	\$ 14.50	LAC-1	\$	4.50	ASQ-2	\$	16.95
A147-11	23.95	LAC-2		4.50	ASQ-6	·	21.95
A147-20T	46.50				ASQ-6SK		9.95
A147-22	68.50	DX-ARRAYS - 20 ELEMENT		ASQ-22		34.95	
A220-11	21.95	DX-120	\$	38.00	ASQ-M		9.95
A449-6	14.95	DX-220		30.00			
A449-11	19.95	DX-420		28.00	TRI BAND BEAM		
AFM-4D	52.50	,			AFB-1	\$	14.50
AFM-24D	48.50	DX-ARRAY BALUNS		ATB-34		189.50	
AFM-44D	46.50	DX-1BN	\$	10.95			
AM-147T	29.50	DX-2BN		10.95	TWIST ANTENNAS		
AR-2	16.50	DX-4BN		10.95	A144-20T	\$	52.00
AR-6	23.50	DX-VPB		8.95	A144-80QT	mi sensan da	325.00
AR-25	19.50				A432-20T		45.00
AR-220	16.50	DX-ARRAY -	40 EL	EMENT	A450-20T		50.00
AR-450	16.50	DXK-140	\$	51.00	,		
ARX-2	26.50	DXK-240		48.00	VHF/UHF BEAMS		
ARX-2K	10.95	DXK-440		36.00	A50-3	\$	26.50
ARX-220	26.50				A50-5		38.50
ARX-450	26.50	DX-ARRAY -	80 EL	EMENT	A50-6		57.50
		DXK-180	. \$	100.00	A50-10		84.50
AMATEUR FM	STACKING	DXK-280		85.00	A 144-7		18.95
KITS		DXK-480		70.00	A144-11		23.95
A14-SK	\$ 13.95				A430-11		18.95
A14-VPK	19.95	HF MONOBEA	AMS				
A21-SK	13.95	A14-2	\$	100.00	VHF/UHF STACKIN	IG :	KITS
A220-11VPK	19.95	A14-3		130.00	A11-SK	\$	13.95
A147-SK	13.95	A21-3		80.00	A17-SK		13.95
A147-VPK	22.95	A21-4		110.00	A41-SK		13.95
A449-SK	13.95	A28-3		60.00	A535-SK		13.95
A449-VPK	18.95	A28-4		70.00	A561-SK		14.95
					AQK-144		79.50
BIG WHEEL ANTENNAS		PROLINE VH	F BEA	MS	AQK-444		62.50
ABW-12S	\$ 10.95	APL-2SK	\$	18.50			
ABW-14S	21.95	APL-6SK		21.50			
ABW-144	19.95	APL-65		110.00			
		APL-210		80.00			

Supercedes all previous price lists



TWIST

MULTI POLARIZED VHF ANTENNAS

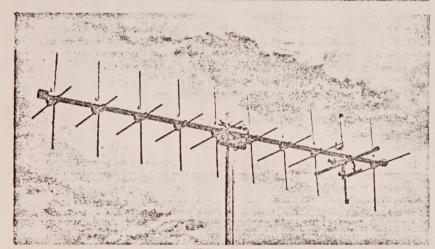
FOR SATELLITE TRACKING, BACK SCATTER, MOONBOUNCE, BASE TO MOBILE AND POINT TO POINT COMMUNICATIONS.

The twist has ten elements in the horizontal and ten elements in the vertical plane. It uses two Reddi Matched driven elements and a simple coaxial phasing system to give horizontal or vertical polarization, left or right circular polarization and axial polarization.

The phasing harness can be permanently mounted at the antenna with one 52 ohm coax feed line for a single mode of polarization. With the harness at the operating position and two 52 ohm coax feed lines any mode of polarization can be selected.

Driven elements and phasing lines have standard coax fittings. The antennas are cut to your exact frequency in the 135 to 150 mhz range.

A144-20T 20 Element Twist



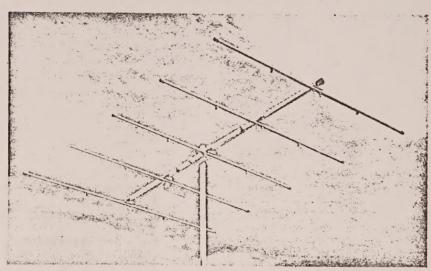
QUAD TWIST

The Quad Twist utilizes four 20 element antennas mounted on an H type stacking frame. (see VHF Quad photo) This configuration gives a reduction in the E and H plane components for a substantial increase in forward gain and larger capture area to improve receive and transmit characteristics.

The array is complete with four antennas, stacking frame, coax harnesses, phasing lines and all hardware. The Quad Twist is cut to your exact frequency in the 135-150 mhz range.

	ent Quad Twist	The same of the same of the same of
MODEL NO.	A144-20T	A144-80QT
BOOM	1" x 144"	4 - 1" x 144"
ELEMENTS	3/16" rod	3/16" rod
WEIGHT	6 lbs.	40 lbs.
HORIZ. POLARIZATION		
FORWARD GAIN	12.4 db	17.8 db
BEAMWIDTH E PLANE	38°	23°
H PLANE	48°	38°
VERT. POLARIZATION		
FORWARD GAIN	12.4 db	17.8 db
BEAMWIDTH E PLANE	48°	38°
H PLANE	38°	23°
CIRC. POLARIZATION		
FORWARD GAIN	13.6 db	19 db
BEAMWIDTH E PLANE	38°	23°
H PLANE	38°	23°
FRONT TO BACK RATIO	22 db	24 db
BANDWIDTH	400 khz	400 khz

6 METER BEAMS



3-5-6-10 ELEMENTS

Proven performance from rugged, full size, 6 meter beams. Element spacings and lengths have been carefully engineered to give best pattern, high forward gain, good front to back ratio and broad frequency response.

Booms are .058 wall and elements are 3/4"-5/8".049 wall seamless chrome finish aluminum tubing. The 3 and 5 element beams have $1\ 3/8"-1\ 1/4"$ booms. The 6 and 10 element beams have $1\ 5/8"-1\ 1/2"$ booms. All brackets are heavy gauge formed aluminum. Bright finish cad plated ubolts are adjustable for up to $1\ 5/8"$ mast on 3 and 5 element and 2" on 6 and 10 element beams. All models may be mounted for horizontal or vertical polarization.

New features include adjustable length elements, kilowatt Reddi Match and built-in coax fitting for direct 52 ohm feed. These beams are factory marked and supplied with instructions for quick assembly.

DESCRIPTION	3 element	5 element	of the distance of the sales and	10 element
MODEL NO.	A50-3*	A50-5*	A50-6	A50-10
BOOM LGTH.	6'	12'	20'	24'
LONGEST EL.	117"	117"	117"	117"
TURN RADIUS	6'	7' 6"	11'	13'
FWD. GAIN	7.5 db	9.5 db	11.5 db	13 db
F/B RATIO	20 db	24 db	26 db	28 db
WEIGHT	7 lbs.	11 lbs.	18 lbs.	25 lbs.
HAM NET	accorde to make at the tr	and a service of the service of	ingenial of the same wastered in	Soldiner in with a security

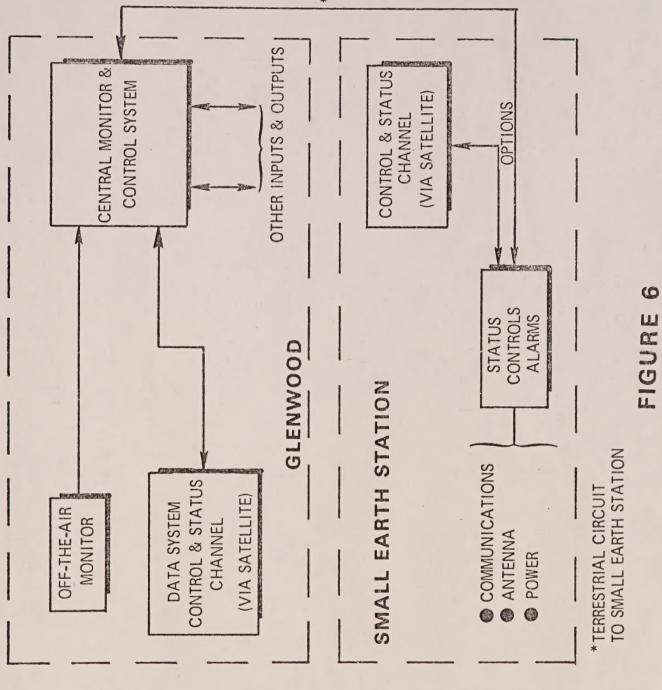
COAXIAL DUAL STACKING KITS

Double your effective radiated power by stacking 6 meter beams. Cush Craft coaxial stacking kits provide a simple and efficient method for realizing 3 db additional gain while maintaining the superior characteristics of our single beams. The stacking kits are complete with RG-59/U cable and preassembled fittings for direct 52 ohm feed.

(NODEL NO	TOD OTHOUNG	A DE A CILITA NECES
MODEL NO.	FOR STACKING	AMATEUR NET
A535-SK ★	. A50-3 or A50-5	
A561-SK*	. A50-6 or A50-10	a surely on the manufacture of the state of

- PARCEL POST OR UPS SHIPPING -

For your convenience and economy the Cush Craft antennas marked with a star by the model number, can now be shipped by parcel post or parcel service.



CONTROL & MONITORING OPTIONS FOR DIRECT CUSTOMER ACCESS DATA